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Notice of Allowability	Application No.	Applicant(s)	
	10/708,861	8,861 ADAM ET AL.	
	Examiner	Art Unit	
	Yennhu B. Huynh	2813	
The MAILING DATE of this communication appeall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communical IGHTS. This application is subjection in the subjection is subjection.	s application. If not included ation will be mailed in due co	urse. THIS
1. This communication is responsive to <u>5/11/05</u> .			
2. The allowed claim(s) is/are <u>1-11</u> .			
3. The drawings filed on 29 March 2004 are accepted by the	Examiner.		
4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subman INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date 1. Deposit Of and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	e been received. been received in Application Note the communication to file a realizable. itted. Note the attached EXAMINes reason(s) why the oath or decist be submitted. son's Patent Drawing Review (P. Samendment / Comment or in the header according to 37 CFR 1.2 sit of BIOLOGICAL MATERIA.	chis national stage application this national stage application apply complying with the requirement. SER'S AMENDMENT or NOT claration is deficient. TO-948) attached To-948) attached	rements TICE OF ack) of
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 3/29/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Summ Paper No./Mail 7. ☑ Examiner's Ame 8. ☑ Examiner's Stat 9. ☐ Other	Date	ance NER

DETAILED ACTION

This Office Action is in response to the Applicant's response filed on 5/11/05.

Election/Restrictions

Applicant's election without traverse of claims 1-11 in the reply filed on 5/11/05 is acknowledged.

Claims 12-20 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected claims, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 5/11/05.

In accordingly claim 12-20 are cancelled.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 3/29/04 is being considered by the examiner.

Oath/Declaration

Oath/Declaration filed on 3/29/04 is accepted.

Drawings

Figures 8A, 8B, 9A and 9C should be designated by a legend such as --Prior Art-because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the

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applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the application was allowed. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and /or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later that the payment of the issue fee.

Authorization was given in a telephone interview with Steven Cappella on 6/23/05.

The application has been amended as follows: In claim 4,line 1 the recited limitation –the method according to claim 1-- should be changed to -- the method according to claim 2--

Reasons For Allowance

Claims 1-11 are allowable over prior art of record.

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The following is an examiner's statement of: Prior art of record does not disclose forming a semiconductor device in a semiconductor substrate, which include the steps of etching the interior walls selective to the liner layer, whereby the octagonal cross section is converted to a rectangular cross section having a trench wall width between trench corner, in combination with the other limitations (claim 1).

Tews et al. disclose forming a vertical trench in semiconductor substrate, wherein the a liner forming in the interior walls with either octagonal or rectangular shape, but do not disclose whereby the octagonal cross section is converted to a rectangular cross section having a trench wall width between trench corner (col.5 fig. 3B lines 14-48).

So et al. disclose an improve trench structures, wherein the trench forming with an octagonal shape (fig.4), but do not disclose whereby the octagonal cross section is converted to a rectangular cross section having a trench wall width between trench corner.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yennhu B. Huynh whose telephone number is 571-272-1692. The examiner can normally be reached on M-F 8.30AM-7.00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr., can be reached 571-272-1702. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

YNBH,

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